SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182E-MAIL: szss20@163.com





SPECIFICATIONS

Best Operating Frequency: 125 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency: 107 dB, 1µPa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency: -169 dB re $1V/\mu$ Pa

Minimum Parallel Resistance: 420 Ω, ±30%

Minimum and Maximum Sensing Range*: 15 cm to 7 m

Typical Sensing Range: 20 cm to 3 m

Free (1 kHz) Capacitance: 1,000 pF, ±200 pF

Beamwidth (@ -3 dB Full Angle): 12°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 800 $\rm V_{\rm pp}$

Operating Temperature: -40°C to 90°C

Weight: 20 g

Housing Material: Glass filled polyester

Acoustic Window: Glass reinforced epoxy

*Pulse-Echo Mode. Minimum and maximum ranges are best case scenarios. Actual range may vary, depending on drive circuitry and signal processing.

Directivity Pattern



Impedance Magnitude & Phase



Transmit & Receive Voltage Response



Figure of Merit (Sum of TVR & RVR)







125 KHz AIRDUCER® Ultrasonic Transducer

Applications

- Level measurement
- Automation control
- Proximity
- Obstacle avoidance
- Robotics

Features

- Rugged sealed construction
- Cylindrical design allows for installation in various applications

Options

- Optional circuit board mounting pins
- Available in PVDF housing for use in chemical aggressive environments

Dimensions



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